KV-X2521D
RM-673

AEP Model

Chassis No. SCC-B14T-A

AE-1 CHASSIS

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SPECIFICATIONS

Television system	CCIR B, G and H
Color system	PAL, SECAM, NTSC3.58, NTSC4.43
Stereo system	German two-carrier system
Channel coverage	VHF channels E2 – E12 UHF channels E21 – E69 Cable TV channels S1 – S20 (A total of up to 30 preselected channels)
Picture tube	Trinitron tube 110-degree deflection Approx. 63.5 cm (25 inches) (Approx. 59 cm picture measured diagonally)
Inputs	21-pin connector : CENELEC Standard 21-pin connector : RGB input unconnected
Outputs	Headphones jack : stereo minijack External speaker terminals : 2-pin DIN Audio output jack : phonojack output level dependent upon TV setting
Power consumption	94 Wh
Dimensions	Approx. 587 × 519 × 460 mm (w/h/d)
Weight	Approx. 35.5 kg
Supplied accessories	RM-673 Remote Commander (1) IEC designation R6 batteries (2)
Audio output	10 W + 10 W (music power)

Design and specifications are subject to change without notice.

MICROFILM

TRINITRON® COLOR TV

SONY®

SECTION 1

GENERAL

Note) The layout, etc., will be slightly different from the operating instructions packed with the units.

1–1. FIRST OF ALL

1 Connect the aerial to the ⊓ socket on the rear of the set.
This socket receives the standard 75-ohm aerial plug.
2 Plug in the set.
3 Tune in the available channels.

Use the buttons inside the panel. To open the panel, push the center.

To tune in all channels automatically :
1 Press ⇨ (preset).
2 Press PROGR to select the program position from which tuning is to start.
3 Press ⇨ (auto programing).

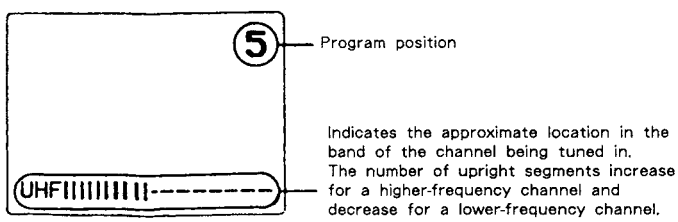
The channels will be tuned in and memorized in consecutive positions, beginning from the program position selected in step 2.
When tuning has been completed, the set returns to the position where tuning began.

To tune in a channel in any desired program position.
(e. g. the position which the same number as the channel) :
1 Press ⇨ (preset).
2 Press PROGR to select the desired program position.
3 Press C (clear).
4 Press ⇤⇥ (search) repeatedly until the desired channel appears.
5 Repeat steps 2 to 4 for all channels, if required.
6 Press ⇨ (preset) again.

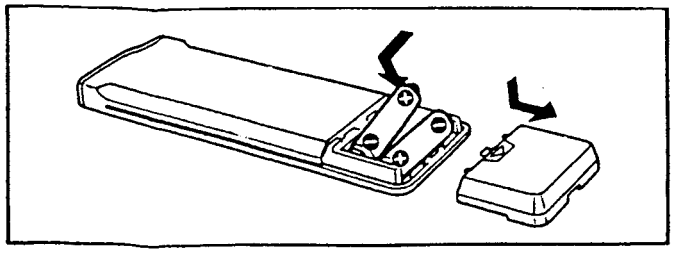
If the set is to be used in an area with poor reception, preset the program numbers between 1 and 19 for TV program use.

To have the unused program positions skipped when PROGR+ or PROGR− is pressed
1 Press ⇨ (preset).
2 Press PROGR to select the unused position.
3 Press C (clear).
4 Repeat steps 2 and 3 for all unused position.
5 Press ⇨ (preset) again.

On-screen display while tuning

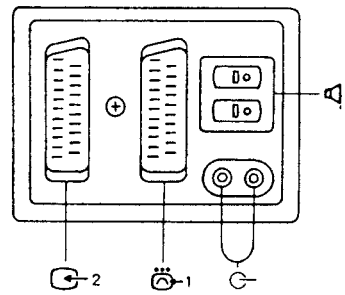

5
Program position
UHF
Indicates the approximate location in the band of the channel being tuned in. The number of upright segments increase for a higher-frequency channel and decrease for a lower-frequency channel.

4 Insert two R6 batteries checking the correct polarity.



1–2. CONNECTING OTHER EQUIPMENT

Connectors on rear set



L/G/S	Left external speaker terminal (2-pin DIN)	Connect to external speakers. The TV speakers will be disconnected. speakers 8–16 Ω
R/D/D	Right external speaker terminal (2-pin DIN)	
R/D/D	Right audio output jack (phono jack)	Connect to audio equipment. When only using the phono-jacks, two loudspeaker plugs, (DIN 41529) should be insarted into the extemal speaker termi nals so that the TV spaker output is switched off.
L/G/S	Left audio output jack (phono jack)	
1	21-pin connector (CENELEC standard)	Connect to a VTR micro computer, etc. The picture of the TV channel being received is always output. The picture of 2 can be watched while recording a TV program with the VTR connected to 1.
2	21-pin connector (without RGB input)	Connect to second VTR. The picture displayed on the screen is always output. The picture of 1 can be recorded with the VTR connected to 2 while monitaring the picture.

VTR operation using the supplied Commander

Remote operation of the VTR is limited to the features and functions of the VTR. For further details, refer to the VTR manual.
When watching a video with the VTR connected to the ⊓ connector, set the channel for the video to the program number 0 or any empty channel between 20 and 29.

Note
Move the VTR away from the TV, if the picture or sound is distorted.

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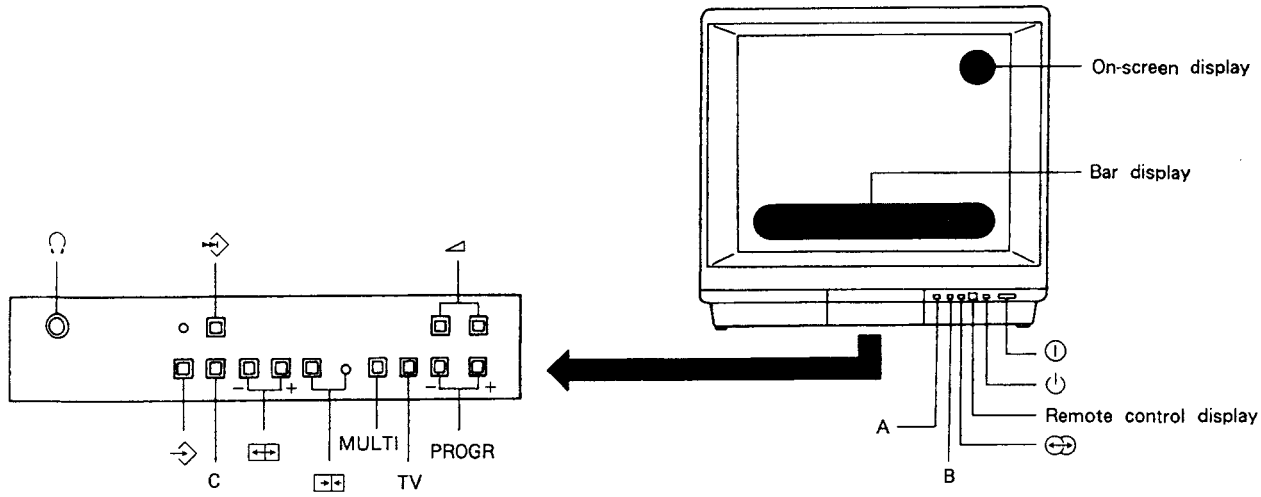
21 pin connector (1, 2)

Pin No.	1	2	Signal	Signal level
1	O	O	Audio output B (right)	Standard level : 0.5 Vrms Output impedance : Less than 1 k ohm*
2	O	O	Audio input B (right)	Standard level : 0.5 Vrms Input impedance : More than 10 k ohms*
3	O	O	Audio output A (left)	Standard level : 0.5 Vrms Output impedance : Less than 1 k ohm*
4	O	O	Ground (audio)	
5	O	O	Ground (blue)	
6	O	O	Audio input A (left)	Standard level : 0.5 Vrms Input impedance : More than 10 k ohms*
7	O	●	Blue input	0.7 V ±2 dB, 75 ohms, positive
8	O	O	Function select (AV control)	High state (9.5–12 V) : Part mode Low state (0–2 V) : TV mode Input impedance : More than 10 k ohms Input capacitance : Less than 2 nF
9	O	O	Ground (green)	
10	O	O	Open	
11	O	●	Green/Green with sync input	Green signal : 0.7 V ±2 dB, 75 ohms, positive Green with sync signal : 1 V ±2 dB, 75 ohms, positive
12	O	O	Open	
13	O	O	Ground (red)	
14	O	O	Ground (blanking)	
15	O	●	Red input	(Same as Pin 7)
16	O	●	Blanking input (Ys signal)	High state (1–3 V) Low state (0–0.4 V) Input impedance : 75 ohmes
17	O	O	Ground (video output)	
18	O	O	Ground (video input)	
19	O	O	Video output	1 V ±2 dB, 75 ohms, positive Sync : 0.3 V (–3, ±10 dB)
20	O	O	Video input	1 V ±2 dB, 75 ohms, positive Sync : 0.3 V (–3, ±10 dB)
21	O	O	Common ground (plug, shield)	

* at 20 Hz–20 kHz O connected ● unconnected (open)

1–3. FUNCTION OF CONTROLS



On the set

On-screen display
Indicates program numbers and input modes.

Bar display
Indicates the level of volume, color, brightness, contrast, bass, treble and balance.

Note on function.
When the volume is at the minimum setting the balance function will not operate.

Power switch
To cut off the mains power completely, press this switch. Depress the power switch fully to ensure correct operation of the set.

Note
To ensure correct operation, push the switch in fully.

standby indicator
Lights up brightly when the set is in the standby mode.

Note
If the main power is turned off when in standby mode, the standby indicator will take 2 to 6 seconds to go off.

space sound indicator
Lights up when on the Remote Commander is pressed.

A/B indicators
One of them lights during bilingual broadcast. (Choose A or B with the Remote Commander.)
Both light during stereo broadcast. In AV mode, A lights for left channel, B for right channel, or A and B for both channels.

Remote control detector
Point the Remote Commander towards this detector.

Inside the panel

headphones jack (stereo minijack)

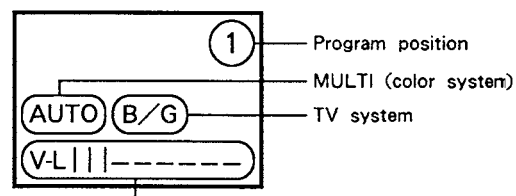
SEARCH buttons
Press to fine tune a weak channel manually, if required. When is pressed, the indicator (AFT) goes off and the AFT cricuit does not function on the selected channel. To restore the AFT circuit on this channel, press (AFT) so that the indicator lights up.

AFT button and indicator
Normally, press so that the indicator lights up.
The AFT circuit automatically fine tunes the channel for the best possible picture.

volume buttons

PROGR+, PROGR– program scan buttons

On-screen display during presetting



Indicates the approximate location in the band of the channel being tuned in.
"V-L" : low VHF band, "V-H" : high VHF band, "UHF" : UHF band.
The number of upright segments increases for a higher-frequency channel.

Each time TV button is pressed, the following indications appear in this order.
B/G : West European TV standard
I : British TV standard
M : American TV standard
D/K : East European TV standard
L : French TV standard

Each time MULTI button (COLOR SYSTEM) is pressed, the following indications appear in this order.
AUTO ; NTSC3.58 ;
Normally set to the AUTO position. The available color system is selected automatically.

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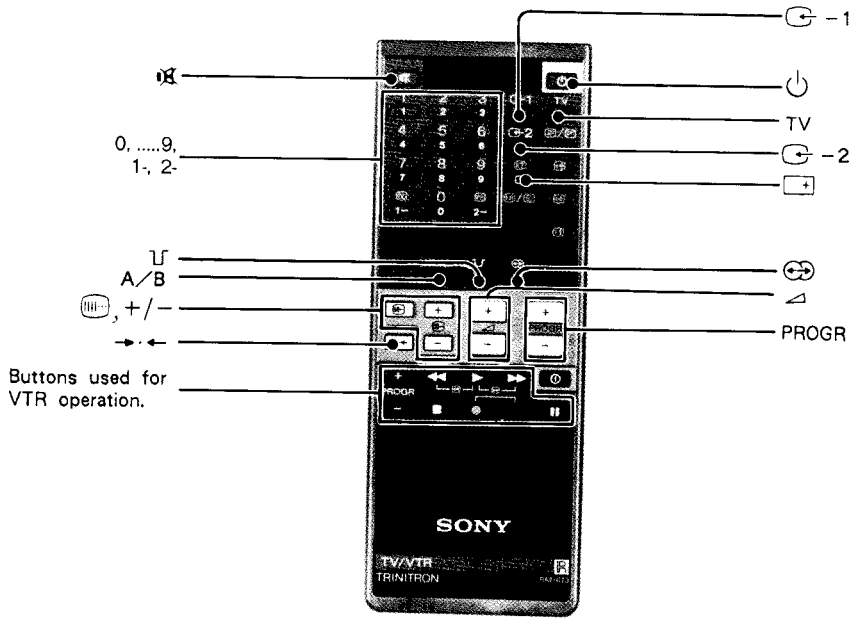

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On the Remote Commander

To operate the Commander, point it toward the remote control detector.

mute button

0, ..., 9, 1-, 2- buttons
To tune into :
program 15, press 1- and 5.
program 25, press 2- and 5.

A/B button
Press to select the language in a bilingual broadcast, or to select the channel in AV mode.

, +/− analogue select buttons
Press .
will appear on the screen. Adjust by pressing + or −.
Press again and adjust (color), then (brightness), (bass), (treble) and (balance).

→ • ← reset button
Press to reset color, contrast and brightness to factory-set levels.

standby button
Press to change to the standby mode. Use this button to turn off the set for short periods of time.
To turn on the set, press TV or the program number ; there will be a slight delay before the picture is restored.

If the main power is turned off when in standby mode, the standby indicator will take 2 to 6 seconds to go off.

TV button
Press to change to the TV mode from standby, input or teletext modes.

1 input button
Press to view the input picture coming in through the 1 connector.
"1" lights up on the screen.
Press TV or the program number to return to the TV mode.

2 input button
Press to view the input picture coming in through the 2 connector.
"2" lights up on the screen.
Press TV or the program number to return to the TV mode.

on-screen display button
Press to make the display appear on the screen.
Press again to make it disappear.

loudness button
Press to emphasize high and low notes.

space sound button
Press to obtain special acoustic effects.

volume buttons

PROGR program scan buttons

Note
Buttons not referred to on this page or next page do not operate.

1–4. VIEWING TELETEXT

To view the teletext service, use the Remote Commander. The buttons for teletext operation are indicated in green.

Operation

1 Select the TV channel for the desired teletext service.
2 Press ▤/▤ (TEXT/MIX) to display the teletext service.
Once ▤/▤ has been pressed, the TV channel cannot be changed.
3 Key in the three digits for the desired page using the number buttons. If an error is made, complete the three-digit sequence by keying in any digit. Then re-enter the correct page number. The requested teletext page is displayed.

To return to the TV mode, press TV on the remote commander.

The teletext service can be displayed directly from the standby mode, by pressing ▤/▤.

To receive the teletext service of a different TV channel
1 Press TV to return to the TV mode.
2 Select the desired TV channel.
3 Press ▤/▤.

Note
To receive the teletext service accurately, keep ⊡ inside the panel switched on during teletext operation.

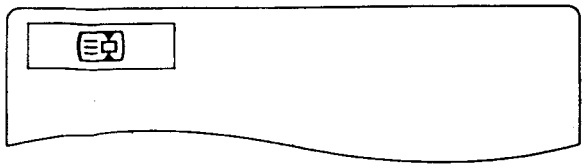
To display the index page
Press ▤ (INDEX).
If the necessary signal is not being broadcast, page 100 is displayed.

To access the next or preceding page
Press ▤ (PAGE+) or ▤ (PAGE−).

To superimpose the teletext display on the TV picture
Press ▤/▤ twice from TV mode.
Press again to return to the TEXT display.

To suppress the teletext display so that the TV picture is displayed
Press ▤ (TEXT CL).
This button can be operated from both the TEXT and MIX displays.

To prevent a teletext page (subpage) from being updated /changed
Press ▤ (HOLD). The HOLD symbol appears at the top of the screen.



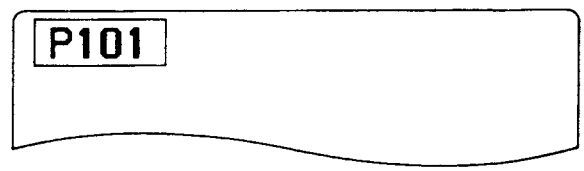
To resume normal teletext reception, press ▤/▤.

To enlarge the teletext display
Press ▤.
Press once to enlarge the upper half of the display ; press again to enlarge the lower half of the display ; press again to return to the normal display.

To reveal concealed infomation such as the answers to a quiz
Press ▤ (REVEAL).
Press again to conceal the answers.

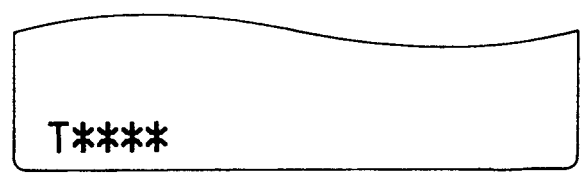
To adjust the contrast of the teletext display.
When in teletext mode, adjust by using the + or − keys adjacent to the ▤ key.

To watch the TV program while waiting for a requested page to be displayed
1 Request the new page.
2 Press ▤ to watch the TV program.
The requested page number appears at the top left of the screen.
When the requested page has been captured, the page number is displayed in the top left hand corner of the screen.

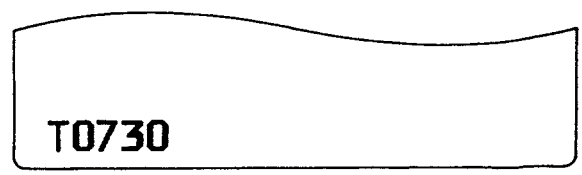


To view this page, press ▤/▤.

To have a requested page displayed at a pre-determined time
1 Request a time coded page (e. g. alarm page).
2 Press ▤ (TP ON).
"T✱✱✱✱" will appear at the bottom of the screen.



3 Enter your request time with the number buttons, using four digits. For example, 07 : 30.



To watch the TV program until the requested time, press ▤. At the requested time, the page number will be displayed at the bottom of the screen.
To view this page, press ▤/▤.
To cancel the request, first ensure that the teletext page is displayed, then press ▤ (TP OFF).

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